Metal Pressure on the Piercing Mill Rolls

S/148/60/000/007/005/015 A161/A029

stainless and alloy steel the pressure is higher than in rolling carbon steel, provided that axial slip has no dominating effect as is the case in rolling 168x8 mm tubes of X 5B\$\overline{\pha}\$ (Kh5VF) and 168x10 mm tubes of X 5 (Kh5) steel tubes. When rolling tubes of equal diameter but different wall thickness, the pressure curve has a maximum. 2) The pressure on the inlet side screwdown is higher than on the outlet side screwdown: by 2-3 times in the piercing mill Nr 1, and 2-4 times in the Nr 2 Load on the outlet side bearings being much lower, their rated life time may be increased 2-3 times. 3) Only slip (lag) of metal was observed in the deformation zone, lead was absent. The axial slip coefficient was between 0.48 and 0.90 There are 8 figures and 5 Soviet references.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: June 24, 1959

Card 3/3

PAVIOV, I.M.; OSADCHIY, V.Ya., kand.tekhn.nauk

Investigating the coefficient of friction and selecting the right material for hard facing rolls on pipe piercing mills. Sbor.Inst.stali no.39:195-205 160; (MIRA 13:7)

1. Kafedra prokatki Moskovskogo ordena Trudovogo Krasnogo Znameni instituta stali im. I.V.Stalina. 2. Chlen-korrespondent AN SSSR (for Pavlov). (Pipe mills) (Friction)

The state of the s

OSADCHIY, V.Ya., kand.tekhn.nauk
Sulfidizing rubbing surfaces of rolling mill parts. Sbor.

Inst. stali no.39:219-225 '60.

1. Kafedra prokatki Moskovskogo ordena Trudovogo Krasnogo Znameni instituta stali im. I.V.Stalina. (Rolling mills) (Protective coatings)

S/130/61/000/001/005/006 A006/A001

AUTHORS:

Osadchiy, V. Ya., Candidate of Technical Sciences, Golubchik, P. M.,

Engineer

TITLE:

The Use of Lubricant in Pipe Rolling

PERIODICAL: Metallurg, 1961, No. 1, pp. 26-27

TEXT: In pipe burnishing technological lubricants are applied to reduce the supporting friction forces in the axial direction, by reducing the friction coefficient on the internal pipe surface. The effect of a number of technological lubricants on efficiency was studied at the Pervouralsk Novotrubnyy Plant on burnishing stands of the 220, 140, No. 1 and No. 2 pipe rolling mills. The investigation was carried out with the participation of A. Z. Gleyberg, P. Ye. Nenashev, E. O. Nodev, L. S. Rakhnovetskiy, A. V. Rabinzon and V. F. Pikalov. Burnishing was performed a) without a lubricant; b) with salt, thrown into the inlet groove of the burnishing stand; c) with salt thrown into the pipe after leaving the automatic stand; d) with air cinder; e) with furnace cinder; f) with a mixture of furnace cinder and salt (1:1). The cinder was preliminary screened through a 1-mm sieve. The technological lubricant was added in amounts of 80 - 100 g

Card 1/2

S/130/61/000/001/005/006 A006/A001

The Use of Lubricant in Pipe Rolling

when throwing the pipe on the feeding conveyer of the burnishing machine, i. e. 5 - 8 seconds prior to burnishing. The lubricant was applied to the pipe in a uniform layer to a greatest possible depth (0.8 - 1.0 mm). Salt as a lubricant is effective at low burnishing temperatures (800 - 850°C); however at elevated temperatures (1,000 - 1,050°C) the use of cinder is more efficient. The introduction of technological lubricant in the pipes prior to burnishing reduces machining time of burnishing and raises thus the efficiency of burnishing mills. As a rule, the forces during the burnishing process do not increase, when using lubricants so that power consumption does not increase either. A correct application of the lubricant should be obtained by using an automatic proportioning device

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

Card 2/2

S/:48/61/000/001/005/015 A161 A 13

Polukhin, P. I.; Osadeniy, V. Ya., and Gerubenik, R. M. AUTHORS:

The use of technological lutricants in finish rolling of tubes TITLE:

PERIODICAL: Izvestiya vysanikh uchebnykh zavedeniy. Chernaya metallurgiya, nc. 1, 1961, 100 - 104

Experiments with different lubricants have been carried out on TEXT: two finish mills at the Yuzhnotrubnyy Plant. The reason for the experiments was the lack of data in literature on lubricants for helical rolling. NaCl is sometimes used in hot pressure working, but the chlorine liberation in the process is noxious, causes gas corrosion, and NaCl is relatively expensive. The purpose was to find a material with the same good lubricating properties as NaCl and without its drawbacks. The test tubes were thinwalled of small drameter. The following materials were tried: commercial NaCl; furnace scale; air scale; graphite; 50% furnace scale + 50% graphite; 50% air scale + 0% graphite; 50% furnace scale + 50% NaCl; 50% air scale + 50% NaCl; '0% NaC. + 50% graphite; 40% air scale + 40% graphite + 20% NaCl, 65% air scale + 35% graphite; 60% air scale + 20% gra-

Card 1/:

THE RESERVE OF THE PARTY OF THE

3/148/61/000,001/005/015 A161/A133

The use of technological lubricants in. .

phite % 20% NaCl. (NaCl was not ground; scale was ground and screened through a 1 mm mesh screen, graphite was reduced to dist). About 80 -100 g of lubricant was thrown into the pipes luring their m tion on a gravity grating from the automatic rolling mill to the receiving choice of the finish rolling mill. The effect of lubr ants was studied by measuring the metal pressure on the rolls by carbon dynamometers in special holders placed under the foreing screws; the current 4a registered by a recording ammeter connected to a shunt on the motor feed r. Other parameters determined were: the power consumption; the rolls well dity, the rolling time for 9meter tubes; the axial sliding factor. The rolling speed increase was higher on alloy steel tubes than on carton steel; the solid scale layer on tubes from stainless steel seemed to neutralize the effect of lubricants. Conclusions: 1) Lubricants are necessary to reduce the braking friction on the mandrel in axial direction and to increase the mill output. 2) NaCl ensures a 10 to 40% higher rolling speed for tubes of different size and steel grades; the effect is higher on alloyed steel. 3) The best of the compounds tested is a mixture of NaCl with air scale. The effect of other lubricants is also positive. 4) Lubricants reduce the power consumption,

Card 2/3

The use of technological lubricants in...

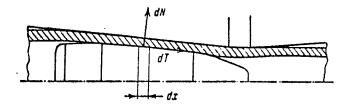
S/148/61/000/001/005/015 A161/A133

improve the rolling process and reduce the wear of mandrels. There is 1 figure, 3 tables and 3 Soviet-bloc references.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: March 3, 1960

Fig. Axial forces on the contact surface between metal and mandrel



Card 3/3

\$/148/61/000/003/005/015 A161/4133

AUTHOR:

Osadchiy, V. Ya.

TITLE:

Forces acting in helical rolling mills

PERIODICAL:

3, 1961, 102 - 107

TRXT: The article presents a theoretical analysis of forces acting it is call tube rolling mills where the pressure exerted on the metal is determined only by the work rolls but also by the top and bottom guide resisting the motion, and the piercing maddrel. It is stated that no method exists yet for a accurate analytical determination of the specific and full metal pressure of the call mill rolls, and empirical data have to be used for determinations. Reference is made to other authors data on measurement results on several mills where the pressure of the screwdowns was much higher at the mill input end than at the put end (the ratio varied in the ranges of 1.0 - 2.33, 1.2 - 3.5, and 1.1 - 1.1.

The author disagrees with the explanation of this phenomenon as the effect of the part of tube sides taking no part in deformation and by the peculiarities of the part of rolls shape. The analyzes the forces taking into account the effect of the part of the shape.

Card 1/2

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

Forces acting in helical rolling mills

3/148/61/000/003/00%, n.g. **A161/A133**

and the mill setting with the axis of rolling shifted below the mill axis, or with the rolling and the mill axis coinciding (both settings being used in the property or the rolling axis shifted above the mill axis (which is only theoretical). It is proven that the pressure on the left and the right work roll will be different when the axis of rolling and of the mill are shifted separately and the action points out that measurements of the metal pressure on the rolls in helical mill have to be made carefully comparing the pressure on the right and the left must be the aid of four dynamometers. There are 2 figures and 6 Soviet-blot retained by

Card 2/2

POLUKHIN, P.I.; GOLUBCHIK, R.M.; OSADCHIY, V.Ya.

Secondary conditions of gripping during the miercing process. Izv.

vys.ucheb.zav.; chern.ms.. 4 no.6:60-66 '61. (MIRA 14:6)

1. Moskovskiy institut stali.

(Rolling (Metalwork)) (Pipe mills)

POLUKHIN, P.I.; OSADCHIY, V.Ya.; GOLUBCHIK, R.M.; KIRVALIDZE, N.S.

Experimental investigation of the tube piercing process. Izv.
vys. ucheb. zav.; chern. met. 4 no.7:88-96 ¹61.

(MIRA 14:8)

1. Moskovskiy institut stali i Yushnotrubnyy zavod.

(Pipe mills)

PAVLOV, I.M.; OSADCHIY, V.Ya.

Sticking of the metal to tools in sliding friction. Izv. vys. ucheb. zav.; chern. met. 4 no.7:105-111 '61. (MIRA 14:8)

1. Moskovskiy institut stali. (Metalworking machinery) (Friction)

POLUCKIN, P.I.; GOLUBCHIK, R.M.; OSADCHIY, V.Ya.; KIRVALIDZE, N.S.

Methods of measuring the axial forces acting on the mandrel in the tube reeling process. Izv. vys. ucheb. zav.; chern. met. 4 no.8:72-77 '61. (MIRA 14:9)

 Moskovskiy institut stali i Yuzhnotrubnyy zavod. (Pipe mills)

S/148/61/000/005/004/015 E113/E180

AUllinki: Poluchin P.I., Gandchiy V Ya., Golubchik, R.M.,

and Zel dovich I.S.

Tilla: Determination of axial forces acting on the mandrel

of a pierring mill

Cart 1/ 5

FFFIG. (Al: lzvestiva zvsshikh uchebnykh zavedeniy, Crernava metallurgiya 1961, No.5 pp. 102-108

The jumpose of this work is to give an analytical formula for the intermination of axial forces acting on the mandrel for pier incomill. To derive this formula statics and mathematical calculus are applied. The axial forces Q_1, Q_2, Q_3 atting in the mandrel in each region are expressed in terms of the geometry of the mandrel, the friction coefficient existing between the metal surface and the mandrel, and the real ton forces from the rollers. Fix I shows the force diagram for the determination of axial forces atting on the mandrel according to N.D. Lomakin (Ref. Fix N.D. Lomakin "Determination of the axial forces acting on the mandrel of a piercing mill. Metal working by pressure."

Collected articles under the editorship of N.P. Gromov issue IV,

Determination of axial forces

5/148/61/000/C05/004/015 E113/E180

In order to find the resultant of these forces for any shape that the generating curve of the mandrel may have they are considered when acting on an elementary part of the generating curve. As an example the axial forces Q₁ and Q₂ are calculated for a mandrel having apherical shape using the theoretical approach developed. Axial force Q₁ can be calculated from considerations of statics. Axial force Q₁ can be calculated from considerations of the mandrel as in the region where it acts the generating curve of the mandrel is a straight line. It is necessary to note that not all of the force from the rolls is transmitted to the mandrel, but part of it is absorbed by the plastic bending of the walls of the roughplerced tube. According to N.D. Lomakin the force necessary for plastic bending calculated according to the formula:

dP_{bending} =
$$0.8k_f = \frac{(d_x - d_x)^2}{d_x - d_x}$$
 dx

where: $k_{\rm F}$ - resistance to plastic deformation. $d_{\rm X}$, $d_{\rm X}^{\prime}$ - external and internal diameters of the rough pierced tube at the section. X This formula is applied in the present work and with its aid, the Card 2/5

Determination of axial forces.... S/148/61/000/005/004/015 E113/E180

final form of formulae for the axial forces is derived. To check the correctness of the derived formulae, experiments have been carried out at Yuzhnotrubnyy zavod, one of the Soviet tube mills. In these experiments, the axial forces were measured for various cone angles of the rolls and various reductions at the tip of the mandrel. For the same values, the axial forces were calculated by means of the derived formula and are tabulated. Fairly good agreement between the theoretical and calculated values of axial forces can be observed. P.T. Yemel'yanenko, S.I. Borisov and A.I. Tselikov are mentioned in the paper.
There are 3 figures, 1 table and 5 Soviet references.

ASSOCIATION: Moskovskiy institut stali

(Moscow Steel Institute)

SUBMITTED: July 1, 1960

Card 3/5

PAVLOV, I.M.; OSADCHIY, V.Ya.

Reflect of the speed of rolling in automatic rolling mills on pipe quality. Izv. vys. ucheb. zav.; chern met. 5 no.1:121-123 '62. (MIRA 15:2)

PAVLOV, I. M.; OSADCHIY, V. Ya., kand. tekhn. nauk

Nature and mechanism of metal sticking during sliding
friction. Sbor. Inst. stali i splav. no.40:173-180 '62.
(MIRA 16:1)

1. Chlen-korrespondent AN SSSR (for Pavlev).

(Rolling(Metalwerk)) (Friction)

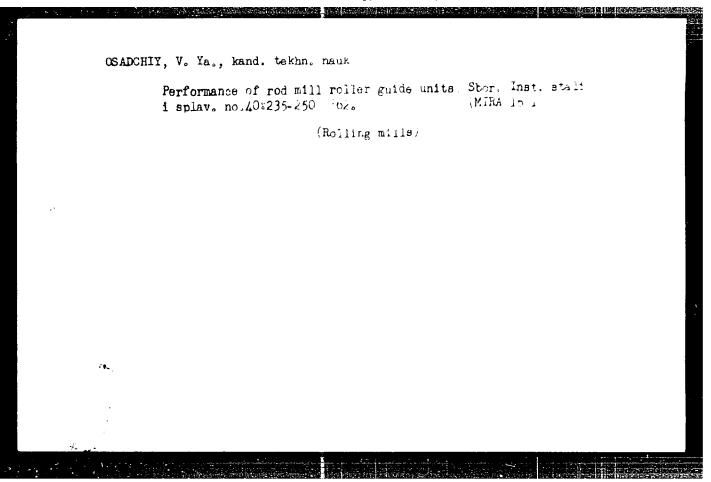
PAVLOV, I. M.; OSADCHIY, V. Ya., kand. tekhn. nauk; SUVOROV, I. K., kand. tekhn. nauk

Increasing the resistance pf passes on 250 mills to sticking and wear. Shor. Inst. stali i splay. no.40:225-234 '62. (MIRA 16:1)

1. Chlen-korrespondent AN SSSR 4for Pavlov).

(Rolling mills)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



POLUKHIN, P. I., prof., doktor tekhn. nauk; OSADCHIY, V. Ya., kand. tekhn. nauk; GOLUBCHIK, R. M., kand. tekhn. nauk; RYMOV, V. A., inzh.; KIRVALIDZE, N. S., inzh.; YESAULOV, A. T., inzh.; GLADKIKH, D. V., inzh.; MAVRODIY, P. D., inzh.

Improving the grooving of roughing rolls of unit 400 plug rolling mills. Sbor. Inst. stali i splav. no.40:319-326 '62. (MIRA 16:1)

1. Moskovskiy institut stali i Yuzhnotrubnyy zavod.

(Rolls(Iron mills)) (Pipe mills)

MUSIKHIN, A.M., kand. tekhn. nauk; PAVLOV, I.M.; OSADCHIY, V.Ya., kand. tekhn. nauk

Roll grooving for three-high reeling mills of diagonal rolling. Sbor. Inst. stali i splav. no.40:327-329 '62.

(MIRA 16:1)

1. Chlen-korrespondent AN SSSM (for Pavlov).

(Rolls(Iron mills)) (Pipe mills)

OSADCHIY, V. Ya., kand. tekhn. nauk

Determination of groove width on automatic reeling mills.

Sbor. Inst. stali i splav. no.40:330-334 '62.

(MIRA 16:1)

(Pipe mills)

CIA-RDP86-00513R001238

PAVLOV, I. M.; MUSIKHIN, A. M., kand. tekhn. nauk; OSADCHIY, V. Ya. Metal pressure on the rolls of a three-high reeling mill of diagonal rolling. Shor. Inst. stali i splay. no.40:335-337 (MIRA 16:1) 162. (Pipe mills) (Pressure)

14

OSADCHIY, V. Ya., kand. tekhn. nauk

Character of unit pressure distribution in diagonal rolling.

Sbor. Inst. stali i splav. no.40:338-342 (62.

(MIRA 16:1)

(Pipe mills)

POLUKHIN, P. I., prof., doktor tekhn. nauk; OSADCHIY, V. Ya., kand. tekhn. nauk; RYMOV, V. A., inzh.; GOLOVKIN, R. V., inzh.; KRICHEVSKIY, Ye. M.

Experimental investigation of power parameters of electric pipe welding machines. Sbor. Inst. stali i splay. no.40:451-459 162. (MIRA 16:1)

1. Moskovskiy institut stali i Moskovskiy trubnyy zavod.

(Electric welding-Equipment and supplies)

PAVLOV, I.M.; OSADCHIY, V.Ya.; GETIYA, I.G. Investigating the transverse rolling process by means of a roller-torsiometer. Izv. vys. ucheb. zav.; chern. met. 6 no.3: (MIRA 16:5) 117-120 163. 1. Moskovskiy institut stali i splavov. (Strain gauges) (Rolling (Metalwork))

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PAVLOV, I.M.; QSADCHIY, V.Ya.; GETIYA, I.G.; FROLOCHKIN, V.V.; KOLIKOV, A.P.

Investigating the process of rapid cross rolling. Izv. vys. ucheb. zav.; chern. met. 7 no.3:107-112 '64. (MIRA 17:4)

1. Moskovskiy institut stali i splavov.
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ACCESSION NR. AP4036805

8/0286/64/000/009/0011/0011

AUTHOR: Potapov, I. N.; Polukhin, P. I.; Osadchiy, V. Ya.; Finagin, P. M.; Mogilevkin, P. D.; Golubchik, R. M.; Tartakovskiy, I. K.

TITLE: A method for rolling seamless thin-walled pipes. Class 7, No. 162089

SOURCE: Byul. isobr. i tovar. snakov, no. 9, 1964, 11

TOPIC TAGS: pipe rolling, seamless pipe, thin-walled pipe, rolling mill, pipe rolling mill, metal rolling

ABSTRACT: This author's certificate introduces a method for rolling seamless thin-walled pipes by the intensive rolling (burnishing) method. In order to increase the mill productivity and reduce the thickness of the pipe walls (for example a wall thickness of 1.5 mm and more at a dimeter to wall thickness ratio of 12-30), the burnishing (intensive rolling) is carried out on a conical mandrel in a rolling mill with three rollers. The working rollers of the mill are made in the form of two cones.

ASSOCIATION: none

Cord 1/2

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

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OSADCHIY, V.Ya.; GETIYA, I.G.; MODILEVKIN, F.D.; AL'SHEVEKIY, I.Ye.;

KIYAMKIN, N.L.; KATS, G.I.

Deformation and rate conditions of the pipe reduction and on a three-high mill. Izv. vys. ucheb. zav.; chern. met. P.

no.11:83-87 '65.

1. Moskovskiy institut stali i splavov.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

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UTHOR: Myachen	kov, V. I. (Mosco	w); Osadchiy,	Ya. G. (Moscow)	ill en e	22
RG: none		t to the constant section (200	emergraphic section		12
ITIE: Approxim	ation method of c	alculating cir	cular three-laye	r plates	
OURCE: Priklad	naya mekhanika, v	. 1, no. 7, 19	65, 63-66	24	
	roximation, diffe	1			
BSTRACT: The	rticle offers an	approximate ca	lculation of cir	cular three-la	yer
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lates beyond the clution of different those of V. hidkostnykh ralingine assemblicaterature, 1963	e elastic limit, erential equation I. Feodos'yev in etnykh dvigateley B), State Scienti . Orig. art. has	based on the uns of equilibriants work 'Procest' (Strength of Ific-Technical 5 figures a	um of a plate. hnost! teplonapi thermally stres Publishing Houss	The notations ryazhennykh uzl seed liquid roc of Defense	ov Vo

EWT(d)/EWT(m)/EWP(w)/EPF(c)/EWP(j)/T/EWP(k)/EJC(m) L 8180-66 SOURCE CODE: ACC NR. AP5027591 UR/0145/65/000/009/0022/0030 AUTHOR: Myachenkov, V. (Aspirant); Osadchiy (Aspirant) ORG: None TITLE: Energy method for calculation of round three-ply laminates 15,14,5 with a filler SOURCE: IVUZ. Mashinostroyeniye, no. 9, 1965, 22-30 TOPIC TAGS: laminated material, mathematic analysis ABSTRACT: The article expounds a new method for calculation of round three-ply unsymmetrical laminates beyond the elastic limit. The method permits calculating unreinforced laminates, as well as laminates reinforced with annular supports. The problem is solved in the region of small elastic-plastic deformations. If The material of the laminates is assumed to be incompressible and the loading to be simple. It is assumed that the deflection of the laminate, W, receives an infinitely small increment, & W. In this case, the variational equation for the equilibrium of the laminate is written in the form: $\delta L = \delta V$ where &v is the change in the deformation energy of the laminate; &L Cord 1/2UDC: 624,073

L 8180-66

ACC NR: AP5027591

is the work expended by the external forces on the displacement of the work of the peripheral generalized forces on the corresponding variations of the generalized displacements. In the case of attached or free bearing of the edges of the laminate:

$$\delta L = \iint \rho \, \delta \, W dF, \qquad (2)$$

where the integration is extended over the whole surface of the laminate, F. The variation of the work of the internal forces for an incompressible material is equal to

$$\delta V = \iiint \sigma_i \, \delta s_i \, d \, \Omega, \qquad (6)$$

where the integration extends over the whole volume of the laminate. Thus, the equilibrium equation (1) can be written in the form:

$$\iiint \sigma_i \delta s_i \, d\Omega - \iint \rho \, \delta \, w \, dF. \tag{4}$$

The article proceeds to a complete mathematical solution of the problem on the above basis, and concludes with an example in the form of a numerical calculation for a construction of this type. Orig. art. has: 27 formulas and 4 figures.

SUB CODE: MT, MM/ SUBM DATE: 13Nov64/ ORIG REF: 002/ OTH REF: 000

OSADCHIY, \$ YA. P

PA 41T22

USSR/Engineering
Factories - Production
Pipe Industry

Jan 1948

"The First Pipe Factory of the Urals," Ya. P. Osadchiy. Director, PervoUral Pipe Factory, 22 pp

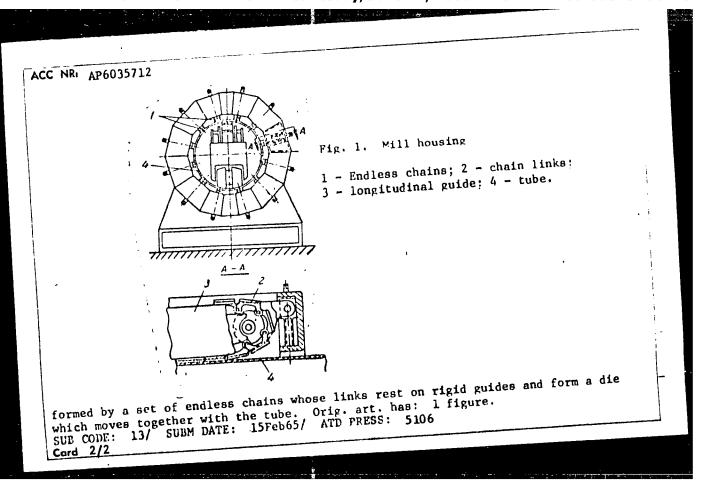
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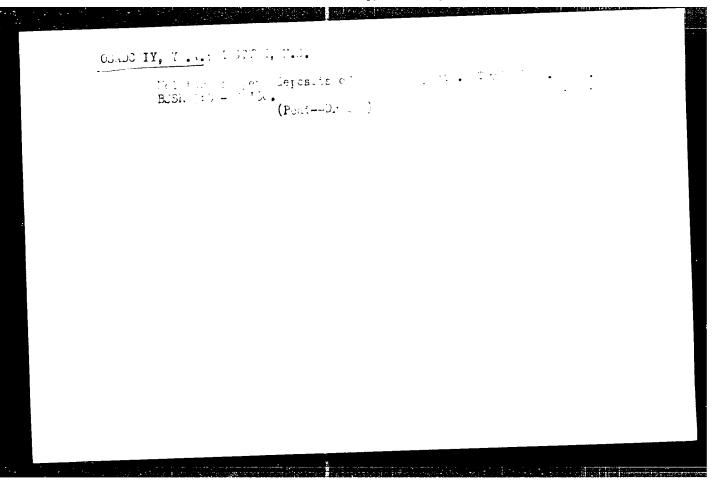
First factory went up in 1930. By 1934 it was turning out pipes for several uses. Briefly discusses development of factory, and mentions its part in accomplishing the present Five-Year Plan. Expected factory will be turning out greater part of alloy pipes produced in Soviet Union by end of this Five-Year Plan.

41722

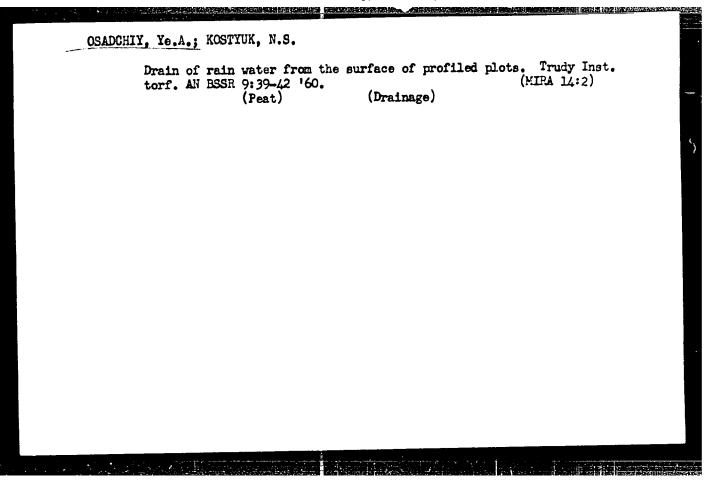
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TOURCE CODE: UR/0413/66/1007/77	
ACC NR: AP6035712 (A) SOURCE (ODE. INVENTOT: Knyazhinskiy, Z. O.: Raychuk, Yu. I.: Kalinushkin, P. N.: Osadchiy, Ya. P.	. :
ACC NR: AP6035712 (A)	- unbau
Raychuk, Yu. I.	
INVENTOR: Knyazninskiy, 5	
Usachev, I. M.	
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of the Piping Industry (to trubnoy promyshlennostry) tekhnologicheskiy institut trubnoy promyshlennostry, tekhnologicheskiy institut trubnoy promyshlennoye znaki, no. 19, 1966, 58 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 58 TOPIC TAGS: welding, continuous welding, henvy tubo welding, welding equipment TOPIC TAGS: welding, continuous welding.	
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TOPIC TAGS: welding, continuous welding, heavy tuned a size of continuous welding to continuous welding ABSTRACT: This Author Certificate introduces a mill housing for continuous welding aBSTRACT: This Author Certificate introduces a mill housing for continuous welding aBSTRACT: This Author Certificate introduces a mill housing for continuous welding aBSTRACT: This Author Certificate introduces a mill housing for continuous welding aBSTRACT: This Author Certificate introduces a mill housing for continuous welding aBSTRACT: This Author Certificate introduces a mill housing for continuous welding aBSTRACT: This Author Certificate introduces a mill housing for continuous welding of a large-diameter tubes (see Fig. 1) comprising a frame and a sizing device. To of a large-diameter tubes (see Fig. 1) comprising a frame and a sizing device. To of a large-diameter tubes (see Fig. 1) comprising a frame and a sizing device. To of a large-diameter tubes (see Fig. 1) comprising a frame and a sizing device.	2 1.8
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UDC: 621,774,21.06	
UDG: 02111.	
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



AKSENCY, Ye.A., glav. rod; (A hore, L.D., red.; (IUEEMAK, D.I., red.; INUDCHIK, E.F., red.; COMP, Ye.A., red.

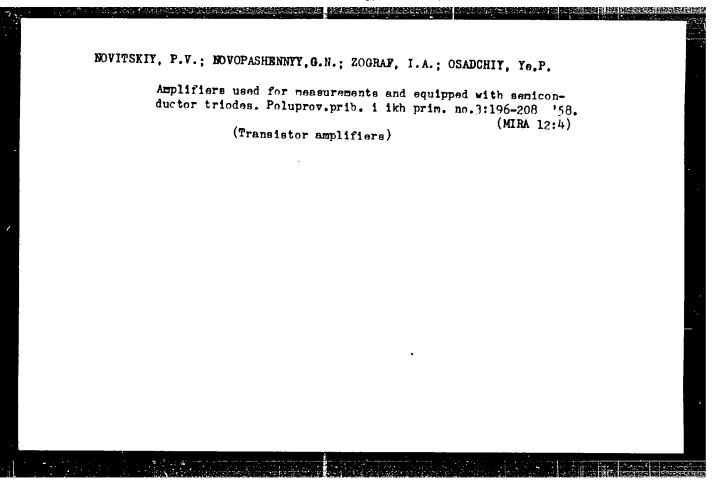
Production of peat oriquett and semibelowetr; exchange of technical-prediction experience Proizvoastvo torfiabe brivatov i a orbrixatov; obmen proizvodstvennotekhnicheskim opytom. Minsk, 1zd. red.-izd. otdein In-ta nauchno-tekhn. informatcii i ropagandy Goskos itata Joveta Ministrov both po koordinatsil nauchno-last. rapet, 1962. (Klink 17:41) 79 p.

1. Vsesoyuznoye maucina-iekhnicherkoye obshchestva energeticheskoy promyshlennosti. Belovusskoye respublikanskoye otdeleriye.

KUZNETS, M.M., prof. [deceased]; BOGDANOVICH, S.N., dotsent; LEVKOVSKIY, N.M., kand. med. nauk; SEMENOVA, V.N.; GLUKHEN'KIY, B.T.; FUKI, M.M.; OSADCHIY, Ye.D.; RARABASH, M.Ye.; VIL'CHINSKIY, S.P.; VITER, I.S.; VOROBETS, T.F.; GRABOVSKAYA, R.A.; RAKHMATULLINA, M.G.; SALOVA, G.V.

Treatment of lupus eruthermatosus with phthivazid. Vrach. delo no.4: 373-378 Ap '59. (MIRA 12:7)

1. Kiyevskiy meditsinskiy institut. (LUPUS) (ISONICOTINIC ACID)



OSADCHIYEV, Vasiliy, Georgiyavich, dotsent; IVANKOV, Petr Timofeyevich, dotsent; BILIESKIY, N. Ta., redektor; RAKOV, S.I., tekhnicheskiy redektor

[Manual for young woodworkers] Spravochnik molodogo dereveobrabotchika. Moskva, Vses.uchebno-pedagog.izd-vo Trudrezervizdat, 1957. 400 p. (MIRA 10:7)

(Woodworking industries)

OSADCHIYEV, Vastily Georgiyevich; IONOV, Anatoliy Mikhaylovich;

MODIN, N.I., red.; SEDOVA, Z.D., red. izd-va: GRECHTSHCHEVA.

V.I., tekhm. red.

[Care of furniture, its transportation, repair and storage]

Ukhod za mebel'iu, perevozka, remont i khranenie. Pod ob shchei red. V.G.Osadchieva. Moskva, Goslesbumizdat, 1962.

137 p. (MIRA 15:9)

(Home economics) (Furniture)

OSADCHIYEV, Vasiliy Georgiyevich IVANKOV, Petr Timofeyevich;
SHUBIN, Grigoriy Solomonovich; TIKHOMIROV, V.V., nauchn.
red.; LEYKINA, A.K., red.; DORODNOVA, L.A., tekhn. red.

[Manual for the young woodworker] Spravochnik molodogo derevoobrabotchika. Izd.2., perer.i dop. Moskva, Proftekhizdat,
1963. 346 p. (MIRA 16:7)

(Woodworking industries)

MO.00ZOV, Nikolay Aleksandrovich, dots., kand. tekhn. nauk;
KHABAROV, L.N., retsenzert; OSADCHIYEV, V.G., kand.
tekhn. nauk, retsenzent; MELVEDEVA, Ye.T., red.

[Technology of wood processing] Tekhnologiia obrabotki
drevesiny. Mockva, Lesnaia promyshlennost', 1965. 333 p.

(NIKA 18:5)

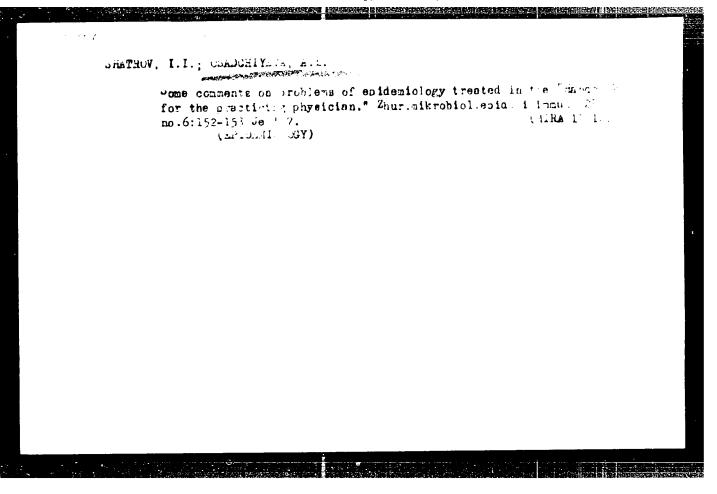
1. Trubchevskiy lesotekhnicheskiy tekhnikum (for Khabarov).
2. Moskovskiy lesotekhnicheskiy institut (for Osadchiyev).

OSADCHIYEVA, A.L.

Results of bacteriolegical examination in cases of chronic dysentery in children treated with synthemycin. Pediatriia no.3:72-73 My-Je '53. (MLRA 6:8)

1. Kafedra epidemiologii II Moskovskogo meditsinskogo instituta imeni I.V. Stalina. (Dysentery) (Antibiotics)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



OSADCHIYEVA, A.L., dotsent; LUPINA, M.I., rayonnyy epidemiolog

Study of the effectiveness of whooping cough-diphtheria vaccines.
Sov.med. 25 no.6:51-55 Je '61. (MIrá 15:1)

1. Iz kafedry epidemiologii (zav. - prof. V.V.Skvortsov) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova i sanitarno-epidemiologicheskoy stantsii Oktyabr'skogo rayona. (WHOOPING COUGH_PREVENTIVE INNOCULATION)

(DIPHTHERIA_PREVENTIVE INNOCULATION)

SKVORTSOV, V.V.; OSADCHIYEVA, A.L.; EYDINOVA, G.G.; SOLNTSEVA, L.Ya.

Increased attention to the prevention of intestinal infections in children. Vop. okh. mat. i det. 7 no.3:3-5 Mr '62. (MIRA 15:5)

1. Is kafedry epidemiologii II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova i sanitarno-epidemiologicheskoy stantsii Oktyabr'skogo rayona Moskvy.

(INTESTINES -- DISEASES)

(CHILDREN-DISEASES)

SKVORTSOV, V.V.; OSADCHIYEVA, A.L.; EYDINOVA, G.G.; ABRAMOVA, N.I.; IVANOV, V.M.; SMIRNOV, V.D.

Reviews, criticism and bibliography. Zhur. mikrobiol., epid. i immun. 33 no.7:145-152 Jl '62. (MIRA 17:1)

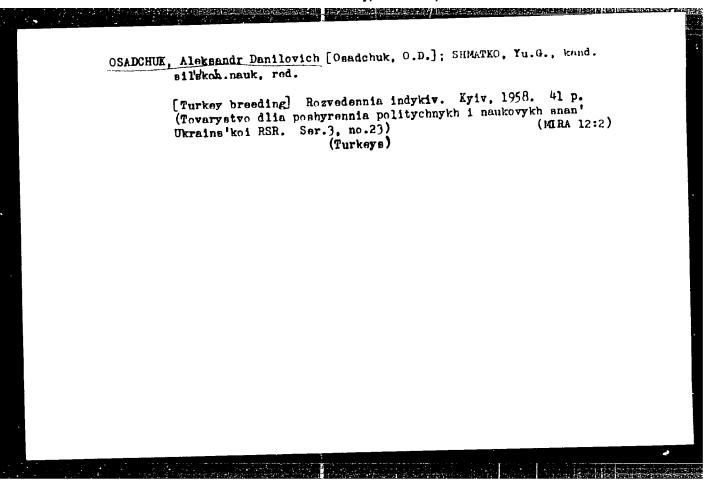
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

OSADCHIYEVA, A.L.; EYDINOVA, G.G.; YERCHOV, F.1.

Epidemiology of collenteritis. Sov. med. 28 no.7:44-48 JT '64.

(MIRA 18:8)

1. Fafedra epidemiologi: 1 TSentral'naya nauchno-issledova'edl'skaya laboratoriya II Moskovskigo mediteinskogo instituta imeni Firogova.



POPOV, A.A., kand.veterin, nauk; OSADCHUK, A.D., starshiy nauchnyy sotrudnik

Deep litter as a means of increasing egg yields of hens and the labor productivity of poultry maids. Ptitsevodstvo 9 no.9:26-31 S '59. (MIRA 12:12)

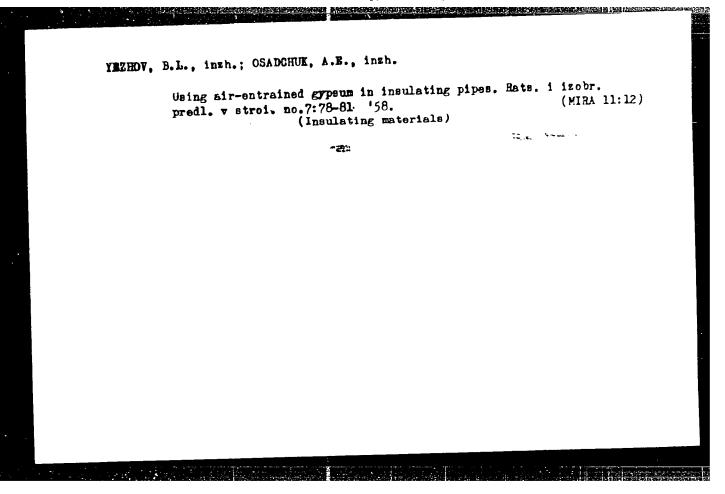
1. Ukrainskaya opytnaya stantsiya ptitsevodstva. (Litter(Bedding)) (Poultry)

DAKHNOVSKIY, N.V.; KEGHLES, Ye.S.; OSADCHUK, A.D.

Extra-wide chicken house with over-all mechanization for keeping hens on permanent litter. Ptitsevodstvo 9 no.1:17-23 Ja 159.

(MIRA 12:1)

1. Ukrainskaya opytnaya stantsiya ptitsevodstva. (Poultry houses and equipment)



NEXHUTMAN, Semen Veniaminovich; OSADCHUK, Grigoriy Ivanovich; SKRIPKIN, Viktor Vasil'yevich; TSAHENKO, A.P., red.; BOBROVA, Ye.N., tekhn.red.

[Experience in transporting perishable freight; practices of the depot of refrigerated trains in the Moscow suburban station]
Opyt perevozki skoroportiashchikhsia gruzov; iz praktiki depo refrisheratornykh poezdov stantsii Podmoskovnaia. Moskva, Gos. transp.zhel.-dor.isd-vo, 1959. 96 p. (MIRA 12:6)
(Railroads--Freight)

ZOROKHOVICH, Aleksandr Yefimovich; KOLOKOLOV, Aleksandr Aleksandrovich;

OSADCHUK, Grigoriy Ivanovich, inzh.; SKRIPKIN, Viktor Vasil'yevich; SELIVANOV, V.I., inzh., retsenzent; KHITRGV, P.A., tekhn.
red.

[Trains with mechanical refrigeration; construction, operation, maintenance, and repair] Poezda s mashinnym okhlazhdeniem; ustroistvo, ekspluatatsiia i remont. Izd.2., perer. i dop. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 371 p. (Railroads-Electric equipment) (MIRA 14:11)

MARINOV, Girsh Ayzikovich; NEKRUTMAN, Semen Veniaminovich; <u>OSADCHUK</u>, <u>Grigoriy</u> Ivanovich; <u>MARTYNOV</u>, M.S., inzh., retsenzent; TSARENKO, A.P., inzh., red.; <u>MEDVEDEVA</u>, M.A., tekhn. red.

[Operation of cars with mechanical refrigeration] Ekspluatatsia vagonov s mashinnym okhlazhdeniem. Moskva, Transzheldorizdat, 1962. 163 p.

(Refrigerator cars)

(Refrigerator cars)

OSADCHUK, Grigoriy Ivanovich; FAYERSHTEYN, Yuliy Oskarovich;

DEM'YANKOV, N.V., inzh., retsenzent; ANIKR, S.V., inzh., retsenzent; BRAYLOVSKIY, N.G., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Maintenance and repair of trains with refrigeration equipment | Remont poezdov s mashinnym okhlazhdeniem. Moskva, Transzheldorizdat, 1962. 286 p. (MIRA 15:9) (Refrigerator cars--Maintenance and repair)

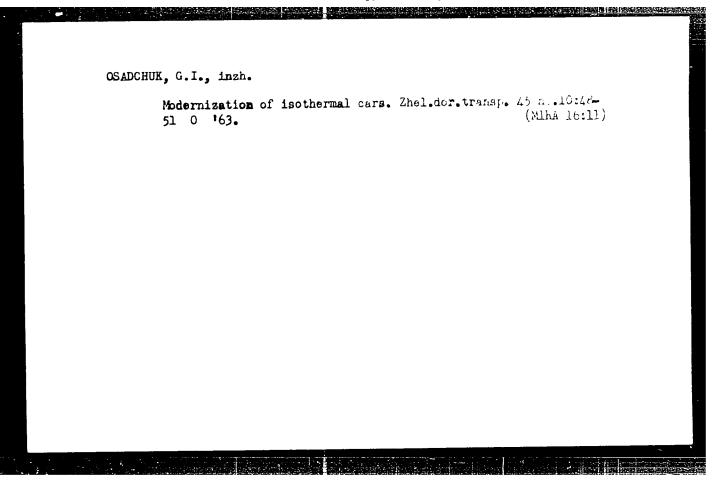
OSADCHUK, G.I.; SLUSHAYENKO, A.M.; BELICHENKO, G.M., retsenzent;

ZVORYMIN, M.L., retsenzent; KOROTEYEV, I.M., retsenzent;

LIBERZON, M.I., retsenzent; KHARITONOV, A.A., retsenzent;

GARSHIN, I.M., red.; BOBROVA, Ye.N., tekhn. red.

[Refrigerator car equipment and air conditioning] Kholodil'noe oborudovanie vagonov i konditaionirovanie vozdukha. Moskva, Transzheldorizdat, 1963. 299 p. (MIRA 17:2)



OSADCHUK, G.I.; RUBINCHIK, I.M.; NEKRUTMAN, S.V., kand.tekhn.nauk

Technical maintenance of air conditioning plants. Zhel.dor.transt. 47 no.10:45-51 0 %65. (MIPA 18:10)

1. Zamestitel' glavnogo inzhenera Glavnogo upravleniva vagonnogo khozyaystva Ministerstva putey soobshcheniya (for Osadchuk).

2. Rukovoditel' laboratorii klimaticheskikh ustanovok Vsesovuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta Ministerstva putey soobshcheniya (for Rubinchik).

OSADCHUK, L.A.

Organizing the independent work of students in the schools for working youth. Fiz. v shkole 23 no.4:75-77 Jl-Ag '63. (MIRA 17:1)

1. 12-ya shkola rabochey molodezhi, Odessa.

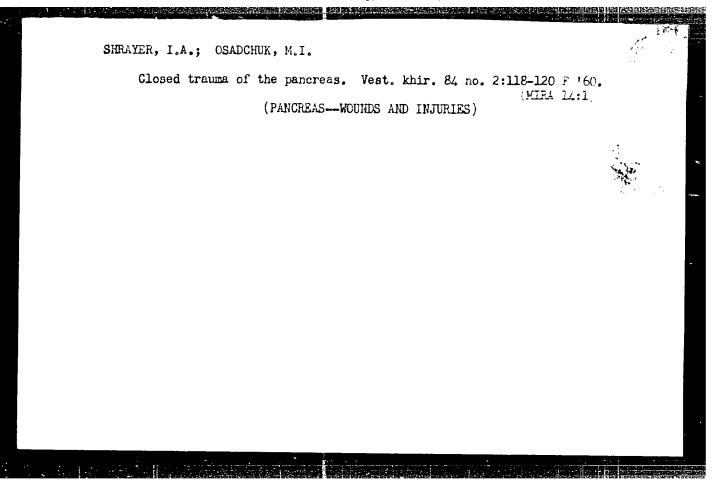
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

ZHURAVLEV, V.S.; OSADCHUK, M.I.

Structural and facies zonation of the Riphaean folded bedrock of Timan. Biul. MoIP. Otd. geol. 35 no. 3:89-102 !y-Je '6c. (MIFA 14:2)

(Timan Ridge-Geology, Stratigraphic)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



ZHURAVLEV, V.S.; OSADCHUK, M.I.

Tectonic position of the Kislyy Euchey series in the Riphean folded basement of the Timan. Dokl. AN SSSR 146 no.5:1156-1159 0 '62.

(MIRA 15:10)

1. Geologicheskiy institut AN SSSR i Ukhtinskoye territorial noye geologicheskoye upravleniye. Predstavleno akademikom A.L.Yanshinym. (Timan Ridge—Geology)

```
Development of poultry farming. Hauka i shyttia 8 no.4:27-29
Ap '58. (MIRA 13:5)

1. Pirektor Ukrainskoy issledovetel'skoy stantsii ptitsevodstva (for Pakhnovskiy).

(Ukraine--Poultry)
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

USSR/Biology - Physiology

FD-2284

Card 1/1

Pub 33-15/18

Author

Osadchuk, O. I.; Shevchenko, A. V.

Title

Towards the history of I. M. Sechenov's transfer to the Novorossiyskiy

(Odessa) University

Periodical:

Fiziol. zhur. 40, 616-617, Sep-Oct 1954

abstract

Gives biographical data on the transfer of I. M. Sechenov from the

Petersburg Medical-Surgical Academy to the Novorossiyskiy (Odessa)

University. Three references.

Institution:

Odesskaya Oblast Record Office

Submitted :

July 12, 1954

OSADCHUK, S.P.; YRPIMOVA, V.S.

Case of agranulocytosis induced by drugs. Zdrav.Kazakh. 16 no.10: 36-39 '56. (NLRA 9:12)

1. Iz kafedry propedevtiki vnutrennikh bolezney (zav. - professor M.A.Brener) i kafedry patologicheskoy anatomii (zav. - professor P.P. Ochruk) Kazakhskogo gosudarstvennogo meditsinskogo instituta imeni V.M.Molotova.

(AGRANULOCYTOSIS)

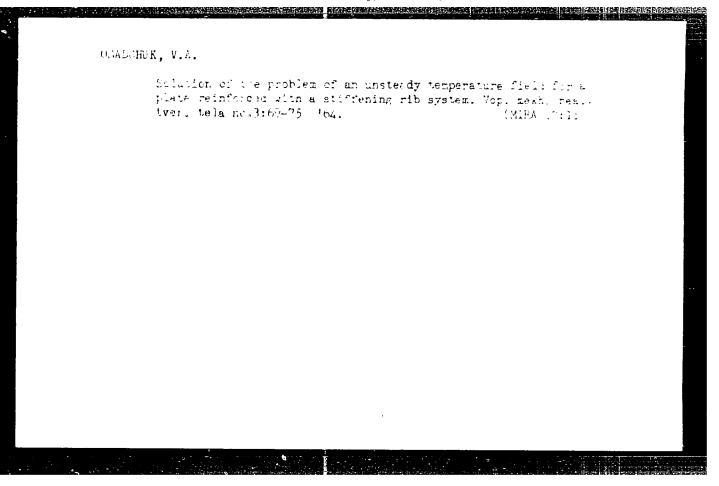
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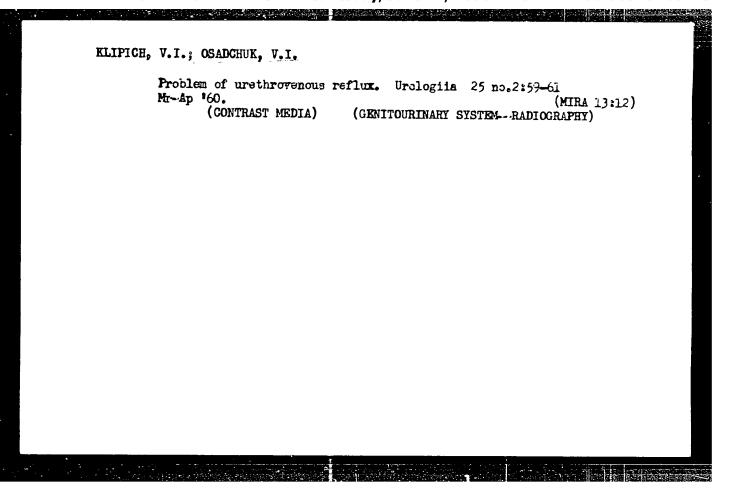
OSADCHUK, T., gvardii mayor; YUSUFOV, S., starshiy tekhnikOleytenant

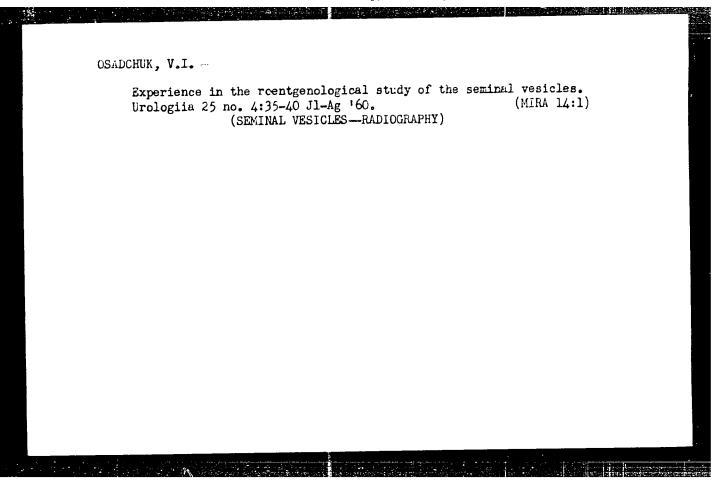
Motor transport operates without interruption. Tyl i snab. Sov.

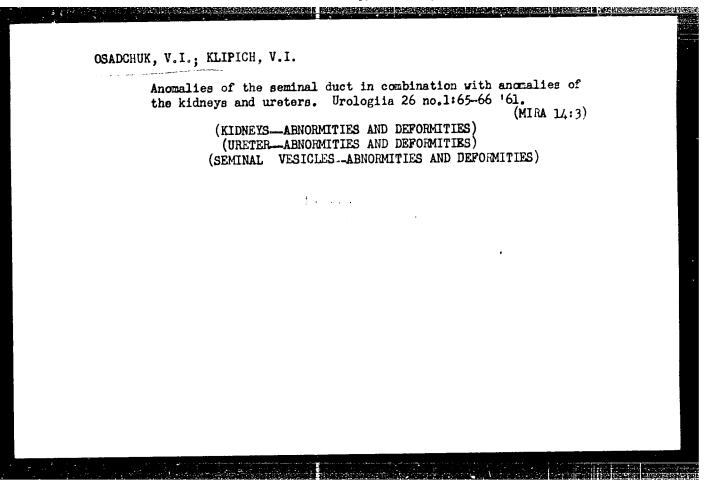
Voor. Sil 2l no.12:68-72 D '61. (MIRA 15:1)

(Transportation, Military)









NEDASHKOVSKIY, I.Yu.; NIKOL'SKIY, E.V.; POTAP'YEV, S.V.; Prinimali uchastiye: KUZNETSOV, V.V.; OSADCHUK, V.M.; MAKSIMOV, T.M.

Recording PS reflected transformed waves in the southern part of the west Siberian Plain. Trudy Inst. geol. i geofiz. Sib. otd.AN SSSR no.16:172-181 '62. (MIRA 16:9) (West Siberian Plain—Seismic prospecting)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

BO REF 80V: 002

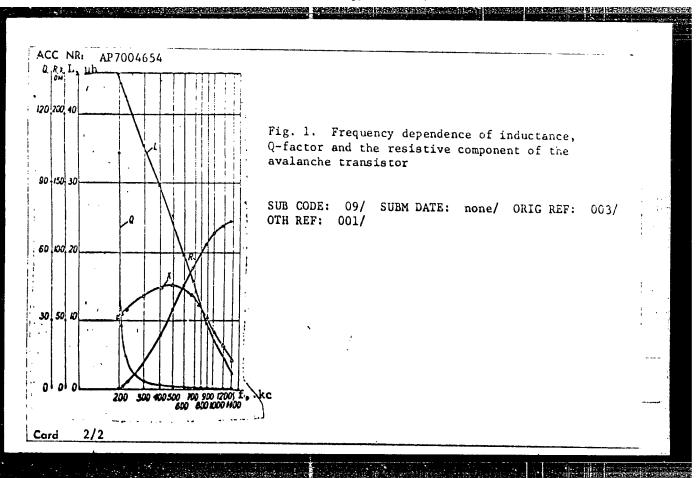
CIA-RDP86-00513R001238

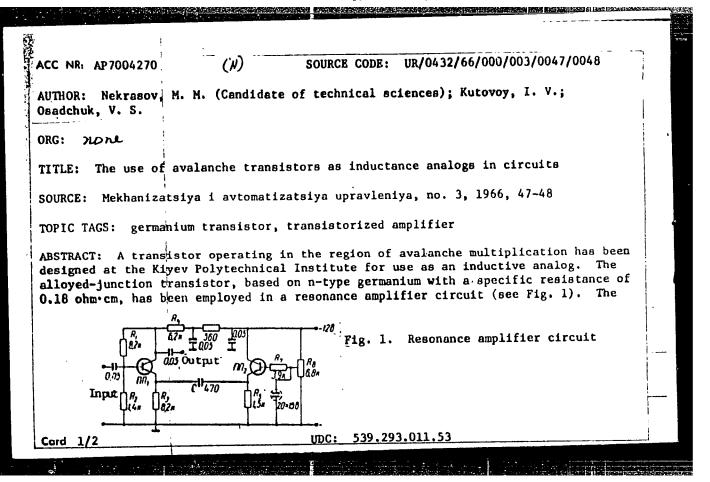
1949-66 EWI(1)/EEC(k)-2/I/EWA(h) IJP(c UR/0302/65/000/003/0056/0057 ACCESSION MR: AP5023280 621.3.011.3:621.382.3 Osadchuk. TITIE: Inductive properties of transistors 75 SOURCE: Avtomatika i priborostroyeniye, no. 3, 1965, 56-57 TOPIC TAGS: transistor ABSTRACT: The inductance, resistance, reactance, and Q-factor as functions of frequency were measured on a Soviet-made P15 composite junction transistor. The inductance curve has a pronounced maximum at 350 kc. The Q-factor can be controlled by varying the resistance connected in series with the transistor base. The possibility of using such transistor as an inductance is of interest for the construction of microminiature circuits. Orig. art. has: 2 figures and 2 formulas. [03] ASSOCIATION: none KNCL: 00 SUB CODE: EC SUBMITTED: 00 ATD PRESS: 4

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

OTHER: 003

ACC NR: AP7004654 SOURCE CODE: UR/0432/66/000/001/0025/0027 AUTHOR: Nekrasov, M. M. (Candidate of technical sciences); Osadchuk, V. S. ORG: none TITLE: Semiconductor inductive element based on an avalanche transistor SOURCE: Mekhanizatsiya i avtomatizatsiya upravleniya, no. 1, 1966, 25-27 TOPIC TAGS: electric inductance, germanium transistor, microelectronic circuit, CIRCUIT, CIRCUIT MICROMINIATURIZATION SOLID STATE ABSTRACT: An avalanche transistor designed for use as an inductive element in monolithic microminiaturized solid-state circuits is described. The transistor was connected in a common-base configuration such that the collector was a-c shortcircuited to the base output. In such a circuit configuration the signal applied to the emitter does not appear at the collector until the carriers diffuse through the base. Therefore the emitter voltage leads the collector current in time; i.e., the input impedance of the circuit can be represented as a series-connected inductor and a resistor. The Q-factor of the input impedance was increased because of avalanche multiplication of carriers in the collector junction. The inductive properties of such a transistor, made from n-type germanium with a resistivity of 0.2 ohm/cm, were measured (see Fig. 1). These semiconductor inductive elements, which can be used in a wide range of circuits, permit microminiaturization of electronic circuits. Orig. art. has: 2 figures and 3 formulas. [IV] Card UDC: 539.293:537.311.6





ACC NR: AP7004270

amplifying stage consists of a PP, transistor and R_1 — R_1 resistors. The series resonance stage, which consists of capacitance C_1 and a PP, transistor, and which acts as an analog of the inductive element, is connected in parallel to resistor R_1 . Resistors R_5 and R_7 and potentiometer R_8 determine the operating conditions of the transistor. It was found that with an increase in the emitter current the inductance of the transistor drops while its Q increases; thus by varying the d-c supply of the transistor the resonance frequency of the circuit can be shifted and its Q controlled. For Q of the order 64 at a resonance frequency of 640 kc, resistance in the emitter circuit of the PP₂ transistor was equal to 1.5 kohm, emitter current to 1.7 mamp, collector current to 2.1 mamp, and collector voltage to -12 v. In subsequent tests, resistance in the emitter circuit was equal to 22 kohm, emitter current to 0.24 mamp, collector current to 0.42 mamp, and collector voltage to -15 v. As a result of these measurements the resonance frequency was fixed at 290 kc for Q 30. For Q above 100, the circuit at first because self-oscillatory and then acted as a rectangular pulse generator. The use of inductive avalanche transistors will make possible the design of miniaturized resonance amplifier circuits as well as sinusoidal signal and pulse generators. Orig. art. has: 2 formulas and 3 figures.

SUB CODE: 09/ SUBM DATE: none/

Cord 2/2

OSACIHUM, Fe.A., kand. sellamorroz. nauk

Utilization of citrogen by wheat during the process of ontogenesis. Agrophologise no.e4.50.250 Mr.5p *64.6 (MIRA 17x6)

1. L*vovskiy sel*skokhozysyotvennyy institut, Dublyany.

OSADCHUK, Yakov Brastovich; TUROVSKIY, B, redaktor; ZELEHKOVA, Ye.,

tekhnicheskiy redaktor.

[Porous gypsum materials] Poristye gipsovye materialy. 2-e izd.

Kiev, Izd-vo Akademii arkhitektury Ukrainskoi SSR, 1955. 41 p.

(Gypsum)

Name: OSADCHUK, Ya. E.

Dissertation: Study on the physical and mechanical properties of porous

gypsum materials and methods for their production

Degree: Cand Pech Sci

Acad Construction and Architecture Ukrainlan SSR, Sci Res

Inst Building Materials

Defense Date, Place: 1956, Kiev

ublication

Source: Knizhnaya Letopis', No 51, 1950

SOV/97-56-11-7/11

AUTHORS:

Kornilovich, Yu.Ye. (Candidate of Technical Sciences,

and Osadchuk, Ya.Ye. (Engineer)

TITLE:

New Instrument for Approximate Testing of the Strengton ...

Concrete (Novaya model' pribora dlya priblizhennogo

ispytaniya prochnosti betona v izieliyakh)

PERIODICAL: Beton i Zhelezobeton, 1958, Nr.11, pp.431-432 (USSI)

ABSTRACT:

In the NII of Building Materials and Products of the Academy of Building and Architecture, Ukrainian SSR.

(NII stroitel'nykh materialov i izdeliy Akademii

stroitel'stva i arkhitektury USSR), Candidate of Technical Science V.V. Tsaritsyn and the authors of this article submitted a design for an instrument for the approximate testing of the strength of concrete without the necessity

of breaking it up. This portable instrument is not based on a change of the depth of depression on the surface of the concrete, but on the reading of the angle

of inclination of a pendulum, the striker of which hits the concrete with a pre-determined force. Advantages of

Card 1/3 this method are increased accuracy and simplicity of

New Instrument for Approximate Testing of the Strength of Concrete.

mechanism and use. The designers by improving this instrument achieved high accuracy (Fig.1). The instrument was described by V.V. Tsaritsyn, Yu.Ye. Kornilovich and Ya.Ye. Osadchuk in an article headed "Instrument for Approximate Testing of Strength of Concrete Work", published in Beton i Zhelezobeton Nr.c, 1956, and also by Yu.Ye. Kornilovich in an artisce headed "Methods of Definition of Strengths of Concrete without Breaking It" published in "Technical Information of the Ministry of Buildings of USSR, 1957" (Teahnicheskaya informatsiya Ministerstva stroitel'stva SSSR, 1957). Fig. 2 shows details of the mechanism of this instrument; a full description of its working is given. shortcoming of the instrument is the necessity to use it in the vertical position only. Repeated tests and comparison of results with those obtained by other methods show an average difference in reading of **+** 15%.

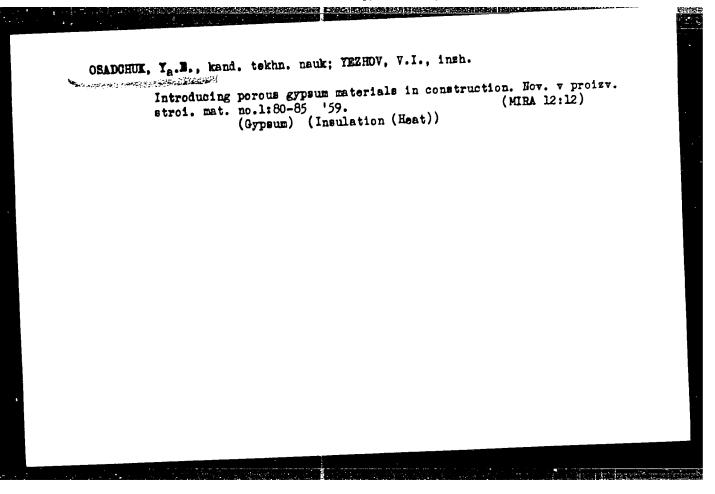
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showed that the instrument is satisfactory, and mass production is advocated. There are 2 figures

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KORNIIOVICH, Yu.Ye., kand. tekhn. nauk; OSADCHUK, Ya.E., kand. tekhn. nauk

Quality of concrete facing materials and architectural details of new buildings in Kiev. Nov. v proizv. stroi. mat. no.1:86-100 '59.

(Kiev--Façades) (Concrete)

OSADCHUK, Ya., kand.tekhn.nauk; VERZHBITSKAYA, M. [Vershbit: ka, M.], inzh.

Structural keramzit concrete. Bud. mat. i konstr. 4 no.l:42-44 Ja-F
(MIRA 15:7)

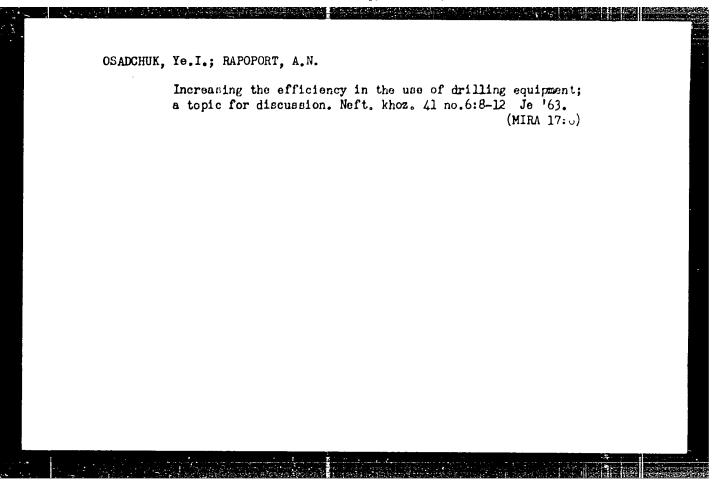
(Lightweight concrete) (Keramzit)

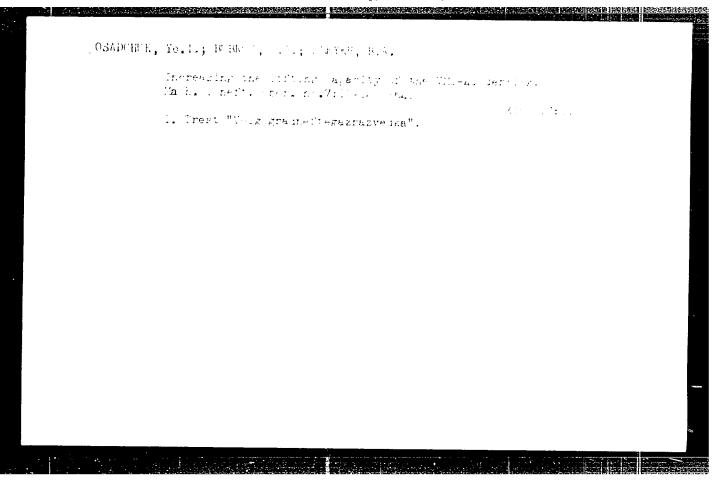
SOKOLOVA, N.F.; OSADCHUK, Te.A.

Photosynthetic productivity in post-harvest crops. Fiziol. rast.

5 no.3:278-280 My-Je '58.

1. L'vovskiy pedagogicheskiy institut, L'vov.
(Hotosynthesis)
(Field crops)

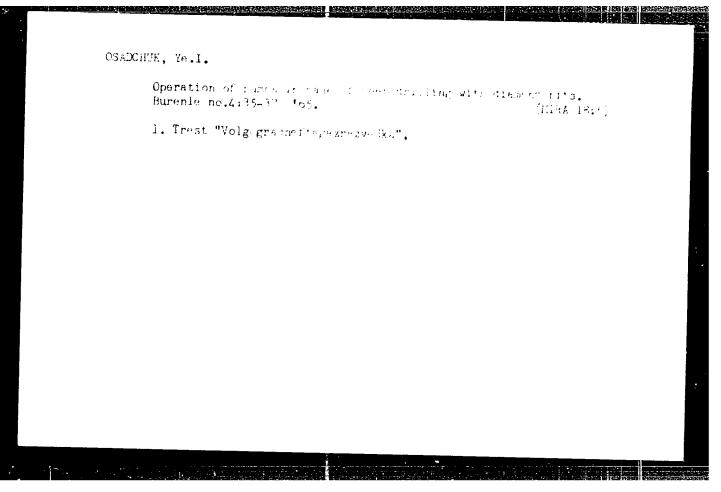




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OSADCHUK, Ye.I.; BUBNOV, A.A.; BLEYKH, B.A.

Selecting an efficient design for the foundations beneath drilling derricks and sub-derrik equipment. Mash. i neft. obor. no.1213-? '6... (MIRA 18:1)

1. Trest "Volgogradneftegazrazvedka".
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OSADCHUK, We.f.; BLEYKH, B.A.; PARSHEV, V.A.

Selecting an efficient arrangement of equipment of the installation for drilling wells 4500-5000m. deep.

Mash. i neft. obor. no. 11:7-12 '65. (MIRA 18:12)

1. Trest "Volgogradneftegazrazvedka".

ABRAMOV, I.A., inzh.; OSADCHUK, Ye.S., inzh.

Improve the performance of SM-580A stonecutting machines. Stroi.
i dor. mash. 8 no.1:21 Ja '63. (MIRA 18:5)

ACCESSION NR: AP4035698

\$/0057/64/034/005/0868/0872

AUTHOR: Gurov, S.V.; Dzhafarov, T.A.; Malinin, A.A.; Osadin, B.A.; Taynov, Yu.F.

TITLE: Electrode processes in high current vacuum discharges

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.5, 1964, 868-872

TOPIC TAGS: electric discharge, vacuum discharge, high current discharge, electrode erosion

ABSTRACT: Electrode crosion in high current vacuum discharges was invostigated by high speed photography of the discharges and microscopic examination of the electrodes. The discharges took place between the ends of coaxial electrodes separated by teflon insulation and located in a chamber evacuated to approximately 3×10^{-5} mm Hg. The inner electrodes were 10 mm in diameter and were of steel, copper, tungsten or tin. The diameters of the outer electrodes were 20 and 28 mm; these were of lead, cadmium, tin, zinc or copper. The energy for the discharge was provided by a bank of electrolytic capacitors charged to from 200 to 300 V and having a capacity of 0.002 to 0.014 farad. The discharge was initiated by a vacuum spark. High speed photographs with a type SFR camera showed the development of a characteristic

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ACCESSION NR: AP4035698

cone of expelled erosion products. The generatrices of this cone made an angle of about 25° with the axis of the electrodes. The maximum intensity of radiation occurred approximately 15 microsec after the onset of discharge; visible expulsion of material censed soon after this, but the electrodes continued to glow for several hundred microseconds. Time resolution photographs showed the presence of spatially limited plasma formations moving with velocities up to 1.5 x 106 cm/sec. These "microplasmoids" were 2 to 5 mm long (in the direction of motion), but their transverse dimensions were much smaller. Electrode material was deposited on the wall of the vacuum chamber near the electrodes. In addition to this, there was a well-focused beam of innized metal in the direction of the axis of the electrodes. The diamoter of this beam increased only to 3 cm in a distance of one meter. The electrodes were polished to a mirror finish before the discharge. After the discharge the anode (inner electrode) showed dark spots several millimeters in diameter, and the cathode (outer electrode) was pitted with many small "microcraters". These micrecraters were very numerous near the inner edge of the cathode, while the outer region was free of them. The microcraters were from 1 to 5 microns in diameter in the copper cathodes, and from 10 to 150 microns in diameter and from 2 to 10 microns deep in the cadmium, tin and zinc cathodes. The craters increased in size with incroasing discharge energy. Droplets of metal (1 to 20 microns) could be seen on the

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